

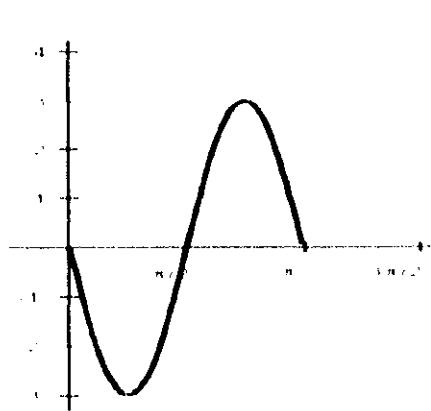
Give the period, amplitude, and shifts for each function (use radians).
DO NOT GRAPH!!

1. $y = 3 \sin(2x)$
2. $y = -4 \cos\left(\frac{1}{3}x\right)$
3. $y = 5 \sin\left(x - \frac{\pi}{3}\right) + 2$
4. $y = 7 \cos(4x - \pi) - 1$

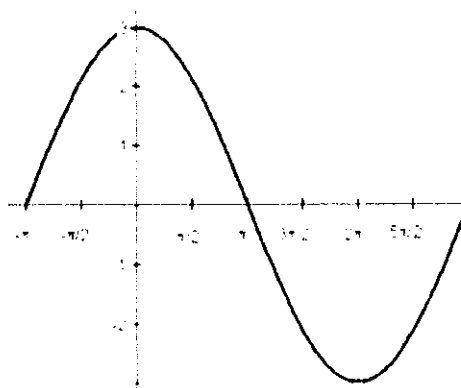
Write an equation of the given trigonometric functions having the specified characteristics

#	Function	Amplitude	Period	Phase Shift	Vertical Shift	Equation
5.	Cosine	0.6	4π	None	None	
6.	Sine	5	$\frac{2\pi}{3}$	None	Up 2	
7.	Cosine	15	4π	Left $\frac{\pi}{2}$	Down 10	
8.	Sine	$\frac{2}{5}$	$\frac{\pi}{3}$	Right $\frac{\pi}{3}$	none	

Find the equation of each graph: (assume no phase shifts have taken place)



9.



10.

Graph $f(x) = -2\cos(3(x - 2\pi/3)) - 1$

